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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/646,835

DATE: 06/15/2001

TIME: 16:32:12

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3 <110> APPLICANT: Multhoff, Gabriele
5 <120> TITLE OF INVENTION: New Use of HSP70 Protein
7 <130> FILE REFERENCE: 40740
9 <140> CURRENT APPLICATION NUMBER: 09/646,835
10 <141> CURRENT FILING DATE: 2001-01-11
12 <150> PRIOR APPLICATION NUMBER: PCT/EP99/02165
13 <151> PRIOR FILING DATE: 1999-03-29
15 <160> NUMBER OF SEQ ID NOS: 2
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 641
21 <212> TYPE: PRT
22 <213> ORGANISM: homo sapiens
24 <300> PUBLICATION INFORMATION:
25 <301> AUTHORS: Milner, Caroline M.
26 <302> TITLE: Structure and Expression of the Three MHC-Linked HSP70
27 Genes
28 <303> JOURNAL: Immunogenetics
29 <304> VOLUME: 32
30 <305> ISSUE: 4
31 <306> PAGES: 242-251
32 <307> DATE: 1990
33 <313> RELEVANT RESIDUES: 384 TO 561
35 <400> SEQUENCE: 1
36 Met Ala Lys Ala Ala Ile Gly Ile Asp Leu Gly Thr Thr Tyr Ser
37 1 5 10 15
39 Cys Val Gly Val Phe Gln His Gly Lys Val Glu Ile Ile Ala Asn Asp
40 20 25 30
42 Gln Gly Asn Arg Thr Thr Pro Ser Tyr Val Ala Phe Thr Asp Thr Glu
43 35 40 45
45 Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala Leu Asn Pro Gln
46 50 55 60
48 Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly Arg Lys Phe Gly Asp
49 65 70 75 80
51 Pro Val Val Gln Ser Asp Met Lys His Trp Pro Phe Gln Val Ile Asn
52 85 90 95
54 Asp Gly Asp Lys Pro Lys Val Gln Val Ser Tyr Lys Gly Glu Thr Lys
55 100 105 110
57 Ala Phe Tyr Pro Glu Glu Ile Ser Ser Met Val Leu Thr Lys Met Lys
58 115 120 125
60 Glu Ile Ala Glu Ala Tyr Leu Gly Tyr Pro Val Thr Asn Ala Val Ile
61 130 135 140
63 Thr Val Pro Ala Tyr Phe Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp
64 145 150 155 160
66 Ala Gly Val Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro
67 165 170 175
69 Thr Ala Ala Ala Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu

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70 180 185 190
 72 Arg Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
 73 195 200 205
 75 Ile Leu Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly
 76 210 215 220
 78 Asp Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His
 79 225 230 235 240
 81 Phe Val Glu Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Gln Asn
 82 245 250 255
 84 Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg Ala Lys Arg
 85 260 265 270
 87 Thr Leu Ser Ser Ser Thr Gln Ala Ser Leu Glu Ile Asp Ser Leu Phe
 88 275 280 285
 90 Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala Arg Phe Glu Glu
 91 290 295 300
 93 Leu Cys Ser Asp Leu Phe Arg Ser Thr Leu Glu Pro Val Glu Lys Ala
 94 305 310 315 320
 96 Leu Arg Asp Ala Lys Leu Asp Lys Ala Gln Ile His Asp Leu Val Leu
 97 325 330 335
 99 Val Gly Gly Ser Thr Arg Ile Pro Lys Val Gln Lys Leu Leu Gln Asp
 100 340 345 350
 102 Phe Phe Asn Gly Arg Asp Leu Asn Lys Ser Ile Asn Pro Asp Glu Ala
 103 355 360 365
 105 Val Ala Tyr Gly Ala Ala Val Gln Ala Ala Ile Leu Met Gly Asp Lys
 106 370 375 380
 108 Ser Glu Asn Val Gln Asp Leu Leu Leu Leu Asp Val Ala Pro Leu Ser
 109 385 390 395 400
 111 Leu Gly Leu Glu Thr Ala Gly Gly Val Met Thr Ala Leu Ile Lys Arg
 112 405 410 415
 114 Asn Ser Thr Ile Pro Thr Lys Gln Thr Gln Ile Phe Thr Thr Tyr Ser
 115 420 425 430
 117 Asp Asn Gln Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala
 118 435 440 445
 120 Met Thr Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly Ile
 121 450 455 460
 123 Pro Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile
 124 465 470 475 480
 126 Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Thr Asp Lys Ser Thr Gly
 127 485 490 495
 129 Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu Ser Lys
 130 500 505 510
 132 Glu Glu Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr Lys Ala Glu
 133 515 520 525
 135 Asp Glu Val Gln Arg Glu Arg Val Ser Ala Lys Asn Ala Leu Glu Ser
 136 530 535 540
 138 Tyr Ala Phe Asn Met Lys Ser Ala Val Glu Asp Glu Gly Leu Lys Gly
 139 545 550 555 560
 141 Lys Ile Ser Glu Ala Asp Lys Lys Lys Val Leu Asp Lys Cys Gln Glu
 142 565 570 575

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145				580					585						590	
147	Glu	His	Lys	Arg	Lys	Glu	Leu	Glu	Gln	Val	Cys	Asn	Pro	Ile	Ile	Ser
148			595					600					605			
150	Gly	Leu	Tyr	Gln	Gly	Ala	Gly	Gly	Pro	Gly	Pro	Gly	Gly	Phe	Gly	Ala
151		610					615					620				
153	Gln	Gly	Pro	Lys	Gly	Gly	Ser	Gly	Ser	Gly	Pro	Thr	Ile	Glu	Glu	Val
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166	Asn	Leu	Leu	Gly	Arg	Phe	Glu									
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VERIFICATION SUMMARY

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